

Safety Data Sheet

Trichloroacetic Acid, 70-90%

Revision Date: 01/08/19

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Trade name: Trichloroacetic Acid, 70%
Product code(s): 3509-04, 3509-16

Trade name: Trichloroacetic Acid, 80%
Product code(s): 3510-15, 3510-04, 3510-16

Trade name: Trichloroacetic Acid, 85%
Product code(s): 3511-04, 3511-16

Trade name: Trichloroacetic Acid, 90%
Product code(s): 3504-04

1.2 Relevant identified uses

Laboratory Reagent

Supplier:

Astral Diagnostics Inc.

800-441-0366 Technical Service
Monday-Friday: 8:00 -5:00 PM

Synonym:

None.

Material uses:

Laboratory Reagent.

Validation date:

12/11/2013

In case of emergency:

800-424-9300 CHEMTREC (USA)
24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Label Elements: Pictogram



Signal Word:

Danger!

Hazard statement(s):

H314: Causes severe skin burns and eye damage

H351: Suspected of causing cancer (oral)

Precautionary statement(s):

P202: Do not handle until all safety precautions have been read and understood

P264: Wash exposed skin thoroughly after handling

P280: Wear protective gloves/ eye protection/ face protection.

P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

NFPA Rating

Health hazard: 3

Fire: 0

Reactivity Hazard: 0

HMIS Classification

Health hazard: 3

Flammability: 0

Physical hazards: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Trichloroacetic Acid	76-06-9	70-90
Water	7732-18-5	Balance

4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: *Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.*

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

5. FIREFIGHTING MEASURES

Flammability of the product: Non Flammable

Extinguishing media: Use suitable media for surrounding materials. Use water fog, avoid direct stream.

Special exposure hazards: Avoid contact with strong oxidizers

Hazardous thermal decomposition products: Decomposition products: carbon dioxide, carbon monoxide

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment for surroundings.

Explosion hazards: Not-applicable

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.

Incompatible products: Strong oxidizers. Strong reducing agents. Strong bases.

Incompatible materials: Sources of ignition. Direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Component	Source	Type	Value	Note
TCA	ACGIH	TWA	0.5 ppm	
	NIOSH	TWA	7 mg/m ³	
	NIOSH	TWA	1 ppm	

Personal protective equipment: Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type B.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask. Gas mask with filter type B.

Other information: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Flash Point: NA

pH: NA

Color: clear, colorless

Odor: mild pungent

Boiling/condensation point: NA

Melting/freezing point: NA
Vapor pressure: NA
Odor threshold: NA
VOC: NA

Relative density: NA
Vapor density: NA
Evaporation rate: NA
Solubility: Soluble in the following materials: water

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

React violently with some bases: release of heat

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Trichloroacetic Acid (76-03-9)

LD50 oral rat 3320 mg/kg

ATE US (oral) 3320 mg/kg

Water (7732-18-5)

LD50 oral rat ≥ 90000 mg/kg

ATE US (oral) 90000.000 mg/kg body weight

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/irritation: Causes serious eye damage

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer (oral)

12. ECOLOGICAL INFORMATION

Toxicity:

Trichloroacetic Acid

LC50 fish 1 2000 mg/l

EC50 Daphnia 1 2000 mg/l

ErC50 (algae) 0.46 mg/l

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil:

Trichloroacetic Acid (76-03-9)

Surface tension 0.278 N/m (80°C)

Log Koc 0

Ecology soil Highly mobile in soil

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)

UN Number: UN2564

Proper Shipping Name: Trichloroacetic Acid Solution

Hazard Class: 8

Packing Group: II

Ltd Qty 1 liter

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Trichloroacetic Acid SARA Section 311/312 Hazardous Classes- Immediate (acute) health hazard

15.2 International Regulations

Trichloroacetic Acid Canada, Class D Division 2 Subdivision A- Very toxic material causing other toxic effects

Canada, Class E- Corrosive material

15.3 California Proposition 65



WARNING: This product can expose you to chemicals including Trichloroacetic Acid, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.